

## **ABSTRACT OF THE DISCLOSURE**

This invention relates to a multiplexer with a DWDM function, mainly comprising two modules, and an optic fiber is linked between said two modules, in which several filters and reflection mirrors, inclined slabs, laser diodes, receiver, and  
5 optical detectors detecting reflection light are provided in each module; thereby, many groups of optic signals may be mutually transmitted in a line of optic fiber at the same time so that the volume of mutually transmitted signals may multiplies under the condition of no extra paved optic fibers required, and in order to effectively detect the variations of laser for promotion of the stability of the module,  
10 the laser diode and the optic detector are further located in a predetermined site and the inclined slab is used to draw the reflection light of the laser to the nearby optic detector detecting the reflection light.